

Abstract

The invention is directed to so-called laser-compatible NIR marker dyes based on polymethines for use in optical, especially fluorescence-optical, methods for determination and detection, for example, in medicine, pharmacology, biological, material and environmental sciences. It was the object of the invention to provide polymethine-based NIR marker dyes with high photostability and storage stability as well as high fluorescence yields which can be excited to fluorescence in the simplest possible manner by laser radiation in the visible or NIR spectral region, especially by light from an argon laser, helium-neon laser or diode laser. According to the invention, dyes based on polymethines of the general formula (I) are used.